
रेल एवं सड़क द्वारा
सूअरों का परिवहन — रीति संहिता
(दूसरा पुनरीक्षण)

**Transport of Pigs
by Rail and Road — Code of Practice**
(Second Revision)

ICS 03.220.01; 65.020.30

© BIS 2022



भारतीय मानक ब्यूरो
BUREAU OF INDIAN STANDARDS
मानक भवन, 9 बहादुरशाह ज़फर मार्ग, नई दिल्ली – 110002
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI-110002
www.bis.gov.in www.standardsbis.in

FOREWORD

This Indian Standard (Second Revision) was adopted by the Bureau of Indian Standards, after the draft finalized by the Animal Husbandry, Feeds and Equipment Sectional Committee had been approved by the Food and Agriculture Division Council.

India possesses one of the largest livestock wealth in the world and in this, pig finds an important place with a great potential to ensure nutritional and economic security for the weaker sections of the society. With the increased demand of protein and food of animal origin in the country, piggery has been taken up on large scale and necessitated the transport of large number of pigs to various places both by rail and road.

This standard was first published in 1969 and subsequently revised in 1982. This revision is undertaken to harmonize the standard with the Transport of Animals (Amendment) Rules, 2001 and Transport of Animals (Amendment) Rules, 2009 under *Prevention of Cruelty to Animals Act*, 1960. In this revision, the following major changes have been incorporated:

- a) Definitions of weaner, young and adult pig has been modified to include body weight range in accordance with the definitions available in Transport of Animals (Amendment) Rules, 2009;
- b) Space requirements for transportation of Pigs by train has been revised and Space requirements for transportation of Pigs by road have been included ; and
- c) Requirements regarding driving the pigs during loading or unloading have been elaborated.

While formulating this standard, necessary consideration has been given to the relevant rules prescribed by the Government of India under the *Prevention of Cruelty to Animals Act*, 1960, Rules framed thereunder and Central Motor Vehicles Rules, 1989. This standard is however, subject to the restriction imposed under these Rules, wherever applicable.

The composition of the Committee responsible for formulation of the standard is given in Annex B.

For the purpose of deciding whether a particular requirement of this standard is complied with the final value, observed or calculated, expressing the result of a test or analysis shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

TRANSPORT OF PIGS BY RAIL AND ROAD — CODE OF PRACTICE

(*Second Revision*)

1 SCOPE

This code covers the minimum requisites for the transport of pigs by rail and road.

2 TERMINOLOGY

For the purpose of this code, the following definitions shall apply:

2.1 Animal — Pigs of all breeds, ages and sex.

2.2 Piglet — Male or female pig under 2 months of age.

2.3 Weaner — Piglet which has just been separated from the mother for the purpose of independent rearing and commonly in the weight range of 12 kg to 15 kg.

2.4 Young Pig — Male or female pig between 3 to 6 months of age and commonly in the weight range of 15 kg to 50 kg.

2.5 Adult — A male or female pig above 6 months of age and having weight of more than 50 kg.

2.6 Boar — An adult uncastrated male pig.

2.7 Sow A female pig that has farrowed at least once.

2.8 Gilt — A female pig (more than 2 months of age) that has not yet farrowed.

2.9 Litter — A group of piglets born to a sow in a single farrowing.

3 GENERAL CONDITIONS

3.1 Only healthy animals in good condition shall be transported unless otherwise required as per the provisions of '*The Prevention and Control of Infectious and Contagious Diseases in Animals Act, 2009*'. These animals should be certified by a qualified veterinarian for freedom from infectious diseases and ecto-parasitic diseases and their fitness to undertake the journey. The certificate shall be in a form specified in Annex A of this standard which is as per Schedule K of Transport of Animals (Amendment) Rules, 2001.

3.2 When pigs are to be transported from endemic areas of a disease to non-endemic areas, the pigs should be

given protective vaccination and kept in quarantine for 30 days, before transportation.

3.3 Sows in advance stages of pregnancy (above 60 days of pregnancy) shall not be transported.

3.4 When transporting boars special arrangements by providing suitable partitions should be made to protect the animals from infighting. Similar arrangements should also be made to protect the young ones from crushing when sows with litter are transported.

3.5 To avoid exhaustion, the animals shall be given humane treatment and care during transportation. The pigs shall not be bound or chained during transit and space provided for them shall be large enough to stand or lie. Please refer Table 1 and Table 2 for space requirements for pigs in railway wagon and road vehicle respectively.

3.6 An attendant along with first aid equipment shall accompany the animals in transit.

3.7 Before loading, the animals should not be fed heavily. Only light feed may be allowed. For journeys less than 12 h no feed may be carried but for longer journeys sufficient feed shall be carried to last during the journey. Watering facilities shall be provided at regular intervals. During transport, it must be ensured that the pigs have constant access to water.

3.8 Light and heavy animals shall be separated by providing partitions. Animals from different pens/sheds shall preferably not be mixed during transportation. Male stock shall not be transported with female stock (adults) as males try to mount on females in heat.

3.9 All vehicles should be inspected for safety, suitability and cleanliness before loading the animals. The floor and walls should be undamaged and there should be no nails or sharp projections which may injure the animals.

3.10 The vehicles should be thoroughly cleaned, sprayed with suitable disinfectant before loading the animals.

3.11 A layer of clean sand to cover the floor of transport vehicles to a thickness of not less than 6 cm shall be

provided. This layer of sand shall be moistened with water during the summer month. During these months arrangements shall be made to sprinkle water on the animals at frequent intervals. In winter, a 2 cm layer of clean sand with another 6cm layer of whole-straw shall be provided.

3.12 Pigs when driven for loading-or unloading shall never be struck with stick. Driving could best be done by soft rubber pipe. During loading and unloading, pigs must never be handled in ways or using tools that cause pain or suffering. In particular, it is prohibited to:

- a) hit or kick animals;
- b) put pressure on particularly sensitive body parts causing unnecessary pain or suffering;
- c) lift animals up with mechanical means tied to their bodies;
- d) drag or pull animals up on their head, ears, legs, or tail; and
- e) use herding tools, including electrical ones, or other tools with sharp ends.

3.13 Pigs shall not be transported along with cattle in rail wagon. In case it is necessary to do so, cattle should be tied securely and, shall be separated from pigs by partition.

3.14 If pigs are to be transported in extreme cold or hot climate, it is preferable to transport them in covered Lorries on road so that they may not die or exhaust or suffer from acute respiratory disease and journey under such adverse climate shall be minimized.

3.15 Each consignment should bear a label showing the following particulars:

- a) Number and kind of the animals loaded;

- b) Name, address and telephone number, if any, of the consignor;
- c) Name, address and telephone number, if any, of the recipient;
- d) Quantity of feed provided;
- e) Instruction regarding feeding and watering;
- f) Time of the commencement of transport; and
- g) Expected duration of transport.

3.16 In transport of pigs by rail or road, the animals shall not be fettered (shackled/restrained) unless there is a risk of their jumping out and their legs shall not be tied down.

4 LOADING

4.1 While loading, the extremes of temperatures shall be avoided.

4.2 Suitable ramp shall be provided for loading and unloading the animals. The ramp should be at least 1.5 metre in width with raised sides at least 75 cm high. The floor of the ramp shall have cleats at intervals of about 15 cm, so that animals do not slip as they climb: or descend. The angle of the ramp with the floor shall not be more than 30°. The ramp shall be covered with straw to avoid slipping (see Fig.1). Van at any time of loading and unloading shall be kept clean to avoid slipping of pigs.

4.3 In case of railway wagons when loading is done on the platform, the door of the wagon may be used as ramp. In such cases, bails or bags of hay, *Bhusa*, etc, may be placed on the either side of the dropped door to prevent the animals from getting their legs between the sides of the wagons and platform.

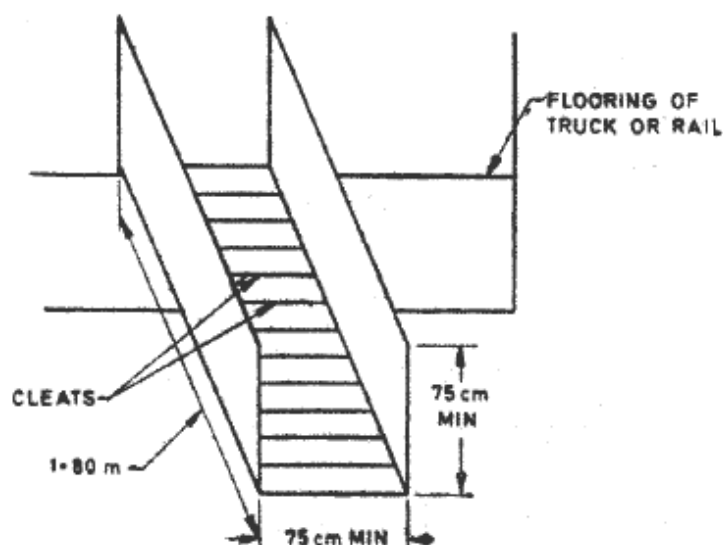


FIG. 1 A TYPICAL RAMP

5 SPACE REQUIREMENTS

5.1 Overcrowding shall be avoided.

5.2 In transport of pigs by rail no railway wagon shall accommodate more than the number of weaner, young and adult pigs as specified in the Table 1.

5.3 Adequate ventilation shall be provided in every wagon and the upper door of one side of wagon shall

be kept open and properly fixed and the upper door of the wagon shall have wire gauge, closely welded mesh arrangements to prevent burning cinders from the engines entering the wagon and leading to fire breakout.

5.4 In transport of pigs by road, no road vehicle shall accommodate more than the number of weaner, young and adult pigs as specified in the Table 2.

Table 1 Maximum Number of Pigs in a Railway Wagon

(Clauses 3.5 and 5.2)

Category of Animal	Broad Gauge	Metre Gauge			Narrow Gauge
	Wagon having Floor Area 63.5 Square Meter	Area of Wagon More than 21.1 Square Meters	Area of Wagon Less than 12.5 Square Meters	Area of Wagon More than 12.5 Square Meters	Not Allowed
Weaner	211	70	41	42	–
Young	151	50	29	30	–
Adult	104	34	20	21	–

Table 2 Maximum Number of Pigs in Road Vehicle

(Clauses 3.5 and 5.4)

Sl No.	Type of Animal	Maximum Number of Pigs Permitted for Road Vehicle			
		Vehicle having size 5.6 m × 2.35 m	Vehicle having size 5.1 m × 2.18 m	Vehicle having size 3.03 m × 2.18 m	Vehicle having size 2.9 m × 2.0 m
1.	Weaner	43	37	22	19
2.	Young	31	26	15	13
3.	Adult	21	18	10	9

ANNEX A

(Clause 3.1)

<p style="text-align: center;">Proforma for Certificate of Fitness to Travel Pigs (Schedule K of Transport of Animals (Amendment) Rules, 2001)</p> <p>(This certificate should be completed and signed by a Veterinary doctor)</p> <p>Date and time of examination</p> <p>Species of animals.....</p> <p>Number of animals.....</p> <p>Sex.....</p> <p>Age.....</p> <p>I hereby certify that I have read Rules 86 to 95 in Chapter VII of the Transport of Animals Rules, 1978.</p> <ol style="list-style-type: none">1. That, at the request of (consignor)..... I examined the above mentioned animals not more than 12 h before their departure.2. That each appeared to be in a fit condition to travel by rail/road/sea and is not showing any signs of any infectious or contagious or parasitic disease(s) and that it has been vaccinated against any infectious of contagious diseases(s).3. That the animals were adequately fed and watered for the purpose of the journey.4. That the animals have been vaccinated.<ol style="list-style-type: none">(a) Type of vaccine(s):(b) Date of vaccination: <p style="text-align: right;">Signed.....</p> <p style="text-align: right;">Address.....</p> <p style="text-align: right;">Qualifications.....</p> <p>Date.....</p>
--

ANNEX A

(Foreword)

COMMITTEE COMPOSITION

Animal Husbandry, Feeds and Equipment Sectional Committee, FAD 05

<i>Organization</i>	<i>Representative (s)</i>
In Personal Capacity (<i>Former Director, Indian Veterinary Research Institute, Izzatnagar</i>)	DR R. K. SINGH (Chairman)
All India Poultry Breeders Association, New Delhi	DR A. K. RAJPUT SHRI G. B. SUNDARAJAN
Animal Welfare Board of India, Faridabad	DR PRACHI JAIN DR DEBALINA MITRA (<i>Alternate</i>)
Association of Indian Pet Food Manufacturers, New Delhi	DR KALLAHALLI UMESH MR MANISH SINGH (<i>Alternate</i>)
CSIR-Central Drug Research Institute, Lucknow	DR D. S. UPADHYAY DR DHANANJAY HANSDA (<i>Alternate</i>)
Centre for Science and Environment, New Delhi	SHRI AMIT KHURANA
Centre of Analysis and Learning in Livestock and Food, Anand	DR RAJESH NAIR DR RAJEEV CHAWLA (<i>Alternate</i>)
Chhattisgarh Kamdhenu Vishwavidyalaya, Raipur	DR SANJAY SHAKYA DR MANOJ KUMAR GENDLEY (<i>Alternate</i>)
Compound Livestock Feed Manufacturers Association of India, Navi Mumbai	MS CHANDRIKA VENKATESH MR SURESH DEORA (<i>Alternate</i>)
Department of Animal Husbandry and Dairying, Panchkula	DR BIRENDER SINGH LAURA DR RAJIV BANGER (<i>Alternate</i>)
Federation of Indian Animal Protection Organizations, New Delhi	DR SIRJANA NIJAR DR VARNIKA SINGH (<i>Alternate</i>)
Food Safety and Standards Authority of India, New Delhi	DR K. ABIRAMI MS MANPREET KOUR (<i>Alternate</i>)
Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana	DR J. S. LAMBA DR JASMINE KAUR (<i>Alternate</i>)
ICAR-Central Avian Research Centre, Bareilly	DIRECTOR CARI DR S. K. BHANJA (<i>Alternate</i>)
ICAR-Directorate of Poultry Research, Hyderabad	DR R. N. CHATTERJEE DR S. V. RAMA RAO (<i>Alternate</i>)
ICAR-Central Institute for Research on Buffaloes, Hisar	DR P. C. LAILER DR AVIJIT DEY (<i>Alternate</i>)
ICAR-Central Sheep and Wool Research Institute, Avikanagar	DR RANDHIR SINGH BHATT DR SROBANA SARKAR (<i>Alternate</i>)
ICAR-Indian Veterinary Research Institute, Izzatnagar	DR A. K. VERMA DR A. K. PATTANAIK (<i>Alternate</i>)
ICAR-National Research Centre on Equines, Hisar	DR S. C. MEHTA DR R. A. LEGHA (<i>Alternate</i>)
ICAR-National Research Centre on Pig, Guwahati	DR KESHAB BARMAN DR SANTANU BANIK (<i>Alternate</i>)
Indian Council of Agricultural Research, New Delhi	DR A. K. TYAGI DR V. K. SAXENA (<i>Alternate</i>)

<i>Organization</i>	<i>Representative (s)</i>
Indian Federation of Animal Health Companies, Mumbai	DR P. G. PHALKE DR TANWEER ALAM (<i>Alternate</i>)
Ministry of Fisheries, Animal Husbandry and Dairying, Department of Animal Husbandry and Dairying, New Delhi	DR H. R. KHANNA DR SUJIT NAYAK (<i>Alternate I</i>) DR ANIBENCOI JACOB (<i>Alternate II</i>)
National Dairy Development Board, Anand	DR V. SRIDHAR DR PANKAJ SHERASIA (<i>Alternate</i>)
National Dairy Research Institute, Karnal	DR NITIN TYAGI DR SACHIN KUMAR (<i>Alternate</i>)
National Egg Coordination Committee, New Delhi	SHRI AJIT SINGH BHAGWATI SINGH (<i>Alternate</i>)
National Institute of Animal Nutrition and Physiology, Bengaluru	DR RAGHAVENDRA BHATTA DR D. T. PAL (<i>Alternate</i>)
North India Poultry Farmers Association, Chandigarh	SHRI SANDEEP MEHTA SHRI PARVEEN GARG (<i>Alternate</i>)
Ossein and Gelatine Manufacturers Association of India, Mumbai	SHRI A. KAPUR SHRI VIREN C. MIRANI (<i>Alternate</i>)
PETA India, Mumbai	DR MANILAL VALLIYATE MS SWATI SUMBLY (<i>Alternate</i>)
People for Animals, New Delhi	MS GAURI MAULEKHI MS SHREYA PAROPKARI (<i>Alternate</i>)
Poultry Federation of India, Sonipat	SHRI VIJAY SARDANA
Tamil Nadu Veterinary and Animal Sciences University, Chennai	DR A. NATRAJAN DR R. RAJENDRAN (<i>Alternate</i>)
BIS Directorate General	SHRIMATI SUNEETI TOTEJA, SCIENTIST 'E' AND HEAD (FAD) [REPRESENTING DIRECTOR GENERAL (<i>Ex-officio</i>)]

Member Secretary

NITASHA DOGER
SCIENTIST 'D', (FAD), BIS

Bureau of Indian Standards

BIS is a statutory institution established under the *Bureau of Indian Standards Act, 2016* to promote harmonious development of the activities of standardization, marking and quality certification of goods and attending to connected matters in the country.

Copyright

BIS has the copyright of all its publications. No part of these publications may be reproduced in any form without the prior permission in writing of BIS. This does not preclude the free use, in the course of implementing the standard, of necessary details, such as symbols and sizes, type or grade designations. Enquiries relating to copyright be addressed to the Director (Publications), BIS.

Review of Indian Standards

Amendments are issued to standards as the need arises on the basis of comments. Standards are also reviewed periodically; a standard along with amendments is reaffirmed when such review indicates that no changes are needed; if the review indicates that changes are needed, it is taken up for revision. Users of Indian Standards should ascertain that they are in possession of the latest amendments or edition by referring to the latest issue of 'BIS Catalogue' and 'Standards: Monthly Additions'.

This Indian Standard has been developed from Doc No.: FAD 05 (17916).

Amendments Issued Since Publication

Amend No.	Date of Issue	Text Affected

BUREAU OF INDIAN STANDARDS

Headquarters:

Manak Bhavan, 9 Bahadur Shah Zafar Marg, New Delhi 110002

Telephones: 2323 0131, 2323 3375, 2323 9402

Website: www.bis.gov.in

Regional Offices:

Telephones

Central	: Manak Bhavan, 9 Bahadur Shah Zafar Marg NEW DELHI 110002	{ 2323 7617 2323 3841
Eastern	: 1/14 C.I.T. Scheme VII M, V.I.P. Road, Kankurgachi KOLKATA 700054	{ 2337 8499, 2337 8561 2337 8626, 2337 9120
Northern	: Plot No. 4-A, Sector 27-B, Madhya Marg CHANDIGARH 160019	{ 265 0206 265 0290
Southern	: C.I.T. Campus, IV Cross Road, CHENNAI 600113	{ 2254 1216, 2254 1442 2254 2519, 2254 2315
Western	: Manakalaya, E9 MIDC, Marol, Andheri (East) MUMBAI 400093	{ 2832 9295, 2832 7858 2832 7891, 2832 7892

Branches : AHMEDABAD. BENGALURU. BHOPAL. BHUBANESHWAR. COIMBATORE.
DEHRADUN. DURGAPUR. FARIDABAD. GHAZIABAD. GUWAHATI.
HYDERABAD. JAIPUR. JAMMU. JAMSHEDPUR. KOCHI. LUCKNOW.
NAGPUR. PARWANOO. PATNA. PUNE. RAIPUR. RAJKOT. VISAKHAPATNAM.

Published by BIS, New Delhi